COMMON COURSE OUTLINE: Course discipline/number/title: AMT 1900: Welding

A. CATALOG DESCRIPTION
1. Credits: 2
2. Hours/Week: 4
3. Prerequisites (Course discipline/number): None
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course covers theory and practice of oxy-acetylene, stick arc, and wire-feed welding. Students will learn theory and safety and have opportunity to learn and practice “hands on welding skills.

B. DATE LAST REVISED (Month, year): February, 2015

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Welding Theory and Safety
2. Oxy-Acetylene Torch Safety
3. Oxy-Acetylene Torch Usage and Brazing
4. Stick Arc Welding, Shielded Metal Arc Welding (SMAW)
5. Wire-feed Welding, Metal inert Gas (MIG)

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Describe welding safety and theory.
2. Oxy-acetylene Heating/cutting and brazing
3. Select proper welding rods.
4. Stick arc weld.
5. Set up equipment
6. Wire-feed weld

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Tests
2. Quizzes
3. Scoring Practice Welds

G. RTC Core Outcome(s) Addressed:
   - Communication
   - Critical Thinking
   - Global Awareness/Diversity
   - Civic Responsibility
   - Personal/Professional Accountability
   - Aesthetic Response

H. SPECIAL INFORMATION (if any): None